



Features and Benefits

Frequency range: 5.5MHz-60MHz(Fundamental)
40MHz-125MHz(3rd overtone)
Load capacitance: 6-20pF
Drivel level: 100uW
Stability: ±15ppm to ±50ppm
Operating temperature: -40°C --+85°C
Size: 7.0x5.0x1.3mm

Typical Applications

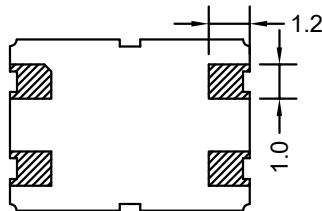
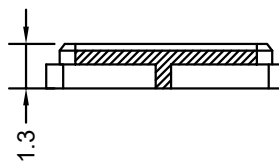
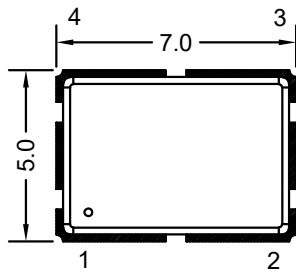
Bluetooth, Mobile phone, GPS
Wireless LAN,4G/LTE
Hard Disk

Description

XTAL7500AX offers Tight tolerance and High stability.
This device is suitable for use under various telecom and network communication applications.

Mechanical Drawing & Pin Connections

Drawing No: MD240019-1



PIN	Function
#1	Crystal
#2	GND
#3	Crystal
#4	GND

Unit in mm
1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range		40-125MHz for 3 rd overtone	5.5		60	MHz	
Frequency Tolerance		@+25°C	±10, ±20			ppm	
Frequency Stability			±15, ±20, ±50			ppm	
Aging		First year			±5.0	ppm	
Mode			Fundamental or 3 rd overtone				
Level of drive				100		uW	
DLD		50nW to 100uW			±10	ppm	
RLD		50nW to 100uW			20%	ohm	
Shunt capacitance	C0				5.0	pF	
Load Capacitance	CL		8,18,20			pF	
Insulative Resistance		Min @ 100Vdc ±15Vdc		500		Mohm	
Equivalent Series Resistance (ESR)		5.5-8MHz			100	ohm	
		8-11.99MHz			70		
		12-20MHz			50		
		20-50MHz			40		
		40-125MHz (3 rd overtone)			80		
Operating temperature			-20°C to +70°C, -40°C to +85°C				
Storage temperature			-55 °C to +125°C				
Sealing Method			Seam Weld				
Moisture Sensitivity Level			1				